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Chairperson: Joseph Nicoletti
Vice Chair: John Kriken
Staff Liaison: Steve Heminger

**BAY BRIDGE DESIGN TASK FORCE
ENGINEERING AND DESIGN
ADVISORY PANEL
Wednesday, April 15, 1998
1 p.m.
Joseph P. Bort MetroCenter Auditorium
101 Eighth Street
Oakland, California 94607**

FINAL AGENDA

Starting Time

1. Welcome and introductions - Joseph Nicoletti, Chair, and John Kriken, Vice Chair
2. Approval of draft meeting record for March 2 meeting*
3. Preliminary ground motion report - Bruce Bolt, U.C. Berkeley 1:15
4. Preliminary geology report - Reid Buell, Caltrans 1:30
5. Presentation of bridge design alternatives: 2:15
 - a. Cable-stayed alternatives - David Goodyear, Karen Cormier, and Tom Piotrowski, TY Lin design team 2:15
 - b. Self-anchored suspension alternatives - Herb Rothman, Karen Cormier, and Don MacDonald, TY Lin design team 3:30
 - c. Discussion of alternatives - Brian Maroney, Caltrans 4:45
6. Other Business/Public Comment

* Attachment sent to members, key staff, and others as appropriate. Copies available at meeting.

Public Comment: The public is encouraged to comment on agenda items at committee meetings by completing a request-to-speak card (available from staff) and passing it to the committee secretary or chairperson. Public comment may be limited by any of the procedures set forth in Section 3.09 of MTC's Procedures Manual (Resolution No. 1058, Revised) if, in the chair's judgment, it is necessary to maintain the orderly flow of business.

Record of Meeting: MTC meetings are tape recorded. Copies of recordings are available at nominal charge, or recordings may be listened to at MTC offices by appointment.

Sign Language Interpreter or Reader: If requested three (3) working days in advance, sign language interpreter or reader will be provided; for information on getting written materials in alternate formats call 510/464-7787.

Transit Access to MTC: BART to Lake Merritt Station. AC Transit buses: #11 from Piedmont or Montclair; #59A from Montclair; #62 from East or West Oakland; #35X from Alameda; #36X from Hayward.

Parking at MTC: Metered parking is available on the street. No public parking is provided.

James P. Spering, Chair
Solano County and Cities

James T. Beall Jr., Vice Chair
Santa Clara County

Keith Axtell
U.S. Department of Housing
and Urban Development

Jane Baker
Cities of San Mateo County

Sharon J. Brown
Cities of Contra Costa County

Mark DeSaulnier
Contra Costa County

Dorene M. Giacomini
U.S. Department of Transportation

Mary Griffin
San Mateo County

Elibu Harris
Cities of Alameda County

Tom Hsieh
City and County of San Francisco

Mary V. King
Alameda County

Steve Kinsey
Marin County and Cities

Jean McCown
Cities of Santa Clara County

Charlotte B. Powers
Association of Bay Area Governments

Jon Rubin
San Francisco Mayor's Appointee

Angelo J. Siracusa
San Francisco Bay Conservation
and Development Commission

Katbryn Winter
Napa County and Cities

Sharon Wright
Sonoma County and Cities

Harry Yabata
State Business, Transportation
and Housing Agency

Lawrence D. Dabms
Executive Director

William F. Hein
Deputy Executive Director

**BAY BRIDGE DESIGN TASK FORCE
Engineering and Design Advisory Panel
April 15, 1998 Meeting
Metropolitan Transportation Commission**

Draft Record of Meeting

Panel Attendance

Joseph Nicoletti (Chair), John Kriken (Vice Chair), Christopher Arnold, Bruce Bolt, Roger Borchardt, Robert Brown, Jerry Fox, Ben Gerwick, Jeffrey Heller, Ephraim Hirsch, I.M. Idriss, T.Y. Lin, Jim McCarty, Roumen Mladjov, Alexander Scordelis, Frieder Seible, Peter Taylor, Steve Thompson, Edward Wilson, and Thomas Wosser.

Approval of draft meeting record for March 2 meeting

The minutes were approved as presented.

Preliminary ground motion report

Bruce Bolt reported on the activities and findings of the Ad Hoc Committee on Ground Motion appointed by Caltrans. Reid Buell of Caltrans and Tom McNeeland of the Fugro West consulting firm reported on the geophysical information obtained from marine soundings and marine and land drilling along the northern adjacent alignment for the new eastern span.

Presentation of bridge design alternatives

The T.Y. Lin design team presented two schemes (single tower and double portal) for each of the cable-stayed and self-anchored suspension bridge alternatives. The presentations included reference to seismic performance, architectural features, construction materials, bicycle/pedestrian access, and night lighting for each of the schemes. The design team also answered numerous questions from EDAP. At the conclusion of the presentations, Brian Maroney of Caltrans made several comments about the bridge alternatives.

EDAP Chair Nicoletti and Vice Chair Kriken then led the panel in a roundtable discussion of the design team's presentation. EDAP comments included reference to the following issues: cable-stayed vs. suspension alternatives, single tower vs. double portal designs, length of the main span and placement of the tower(s), treatment of the Yerba Buena Island landing, design of the causeway section, connections between the causeway piers, placement of pile caps below water, need for additional seismic performance and cost information, choice of construction materials (steel, concrete, or composite), and bicycle/pedestrian path design.

At the conclusion of the discussion, EDAP approved a motion recommending that the design team place the pile caps above water but with careful attention to the design.

Public Comment

The following members of the public made comments during the public comment period:

Jack Robbins - regarding the project budget

Bryan Foster - requesting reconsideration of retrofitting the east span

Bill Smith - regarding bicycle/pedestrian access

**BAY BRIDGE DESIGN TASK FORCE
Engineering and Design Advisory Panel
March 2, 1998 Meeting
Metropolitan Transportation Commission**

Draft Record of Meeting

Panel Attendance

Joseph Nicoletti (Chair), John Kriken (Vice Chair), Karen Alschuler, Christopher Arnold, Roger Borchardt, Robert Brown, Ben Gerwick, Jeffrey Heller, Ephraim Hirsch, T.Y. Lin, Jim McCarty, Roumen Mladjov, Alexander Scordelis, Peter Taylor, Steve Thompson, and Edward Wilson.

Summary of events since last EDAP meeting

Steve Heminger of MTC staff presented a summary of MTC's approval of bridge design recommendations, legislative enactment of a financial agreement for the toll bridge seismic retrofit program, the hiring of the T.Y. Lin International/Moffatt & Nichol joint venture as the Bay Bridge design team, and the deletion of members from the EDAP roster as a result of the design contract award.

Introduction of joint venture design team

Prior to introduction of the design team, Reid Buell of Caltrans presented a brief report on geological testing on the northern alignment and Steve Hulsebus of Caltrans reported on highway design geometry issues for the new span. Denis Mulligan and Brian Maroney of Caltrans then introduced the winning design team of T.Y. Lin International/Moffatt & Nichol and members of the design team were subsequently introduced by Allen Ely, the design team project manager.

Presentation of alternative cable-stayed and self-anchored suspension span designs

The T.Y. Lin design team presented three schemes (single tower, double portal, and triple tower) for each of the cable-stayed and self-anchored suspension bridge alternatives. The presentations included reference to architectural features, engineering aspects, bicycle/pedestrian access, and night lighting for each of the schemes. The design team also answered numerous questions from EDAP. At the conclusion of its presentation, the design team recommended carrying the double portal and triple tower schemes for each alternative to the 30% design stage.

EDAP Chair Nicoletti and Vice Chair Kriken then led the panel in a roundtable discussion of the design team's presentation and recommendation. At the conclusion of the discussion, EDAP unanimously recommended that the design teams instead carry the single tower and double portal schemes to the 30% design stage.

Public Comment

The following members of the public made comments during the public comment period:
George Lythcott – regarding the causeway section of the new span
Caycee Cullen – regarding bicycle/pedestrian access

Chair Nicoletti adjourned the meeting in the memory of Nicholas Forell, an EDAP member who recently passed away.

ROSTER
Engineering and Design Advisory Panel
Bay Bridge Design Task Force

Chair: Joseph Nicoletti

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Note: The Engineering and Design Advisory Panel of the Bay Bridge Design Task Force is comprised of representatives from the following organizations (in some instances serving on more than one panel):

- American Institute of Architects
- American Society of Civil Engineers
- Bay Conservation and Development Commission Design Review Board
- Bay Conservation and Development Commission Engineering Criteria Review Board
- Caltrans Peer Review Panel
- Caltrans San Francisco-Oakland Bay Bridge Review Panel
- Caltrans Seismic Advisory Board
- Structural Engineers Association of Northern California

PRESS

Engineering and Design Advisory Panel

Bay Bridge Design Task Force

April 15, 1998 - 1:00 p.m.

NAME

REPRESENTING

1.

Maria Krache

KQED-FM

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3.

4.

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9.

10.

Engineering and Design Advisory Panel Bay Bridge Design Task Force

April 15, 1998 - 1:00 p.m.

Public Sign-in Sheet

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